

I CLAIM:

1. A stent graft device of the type to be located within an Aorta and its bifurcation into Iliac arteries, the graft comprising a proximal main tubular portion to be retained within an upper portion of the aorta, the proximal main tubular portion having a first diameter and dividing into two tubular limbs each limb having a second diameter and a distal end portion to be located inside an associated iliac artery and held against an inner surface of the iliac artery, the distal end portion defining a third diameter larger than the second diameter, the distal end portion being merged with the associated graft limb through a transition flared portion.

2. The stent graft device of claim 1, wherein the graft is to be located inside an aorta having an inner diameter smaller than the sum of inner diameters of the iliac arteries, the two graft limbs accommodating together within the restricted inner diameter of the aorta without the restriction of the aorta affecting the second diameter of the limbs, while the distal end portions being accommodated and retained within the iliac arteries.

3. The stent graft device of claim 1, wherein the flared transitional portion is conical.

4. The stent graft device of claim 1, wherein the distal end portion is cylindrical.

5. The stent graft device of claim 2, wherein the flared transitional portion is conical.

6. The stent graft device of claim 2, wherein the distal end portion is cylindrical.